



US 20150126236A1

(19) **United States**(12) **Patent Application Publication**  
**Mukherjee et al.**(10) **Pub. No.: US 2015/0126236 A1**(43) **Pub. Date: May 7, 2015**(54) **CONTROLLING INTERFERENCE CAUSED  
BY SECONDARY SYSTEMS**(75) Inventors: **Amitav Mukherjee**, Santa Clara, CA  
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§ 371 (c)(1),

(2), (4) Date: **Jul. 25, 2014****Publication Classification**(51) **Int. Cl.****H04W 16/14** (2006.01)**H04W 72/04** (2006.01)**H04W 52/38** (2006.01)(52) **U.S. Cl.**CPC ..... **H04W 16/14** (2013.01); **H04W 52/38**  
(2013.01); **H04W 72/0453** (2013.01)(57) **ABSTRACT**

There is provided a method comprising: obtaining, at a base station of a secondary user system utilizing shared radio communication resources with a coexisting primary user system, channel state information with respect to both a propagation channel between the secondary user and the base station and a propagation channel between the secondary user and a primary user; jointly determining power allocation and transmit coefficients for at least one data stream which is to be transmitted from the secondary user to the base station; and causing communication of information indicating the determined power allocation and transmit coefficients to the secondary user.

